

**Application No.: 00/000,000**

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FIG. 1A

Login to the patent office computer (1A)

Navigate to a target application (2A)

Select a document listed in a file history index (3A)

Retrieve each page image of the document from the patent office computer (4A)

Combine page image(s), compress and format as a PDF document (5A)

Optionally OCR the image to generate text searchable PDF document (6A)

FIG. 1B

Login to the patent office computer (11)

For each docket item:

Determine application identifier for the docket item (12)

Search patent office computer and retrieve index for application identifier (14)

From index, determine new docket item(s) not present in a local database (16)

Download files associated with newly identified docket items from patent office computer to local database (18) :

Retrieve each page image of the docket item from the patent office computer (20)

Combine page image(s), compress and format as a PDF document (22)

Optionally OCR the image to generate text searchable PDF document (24)

FIG. 1C

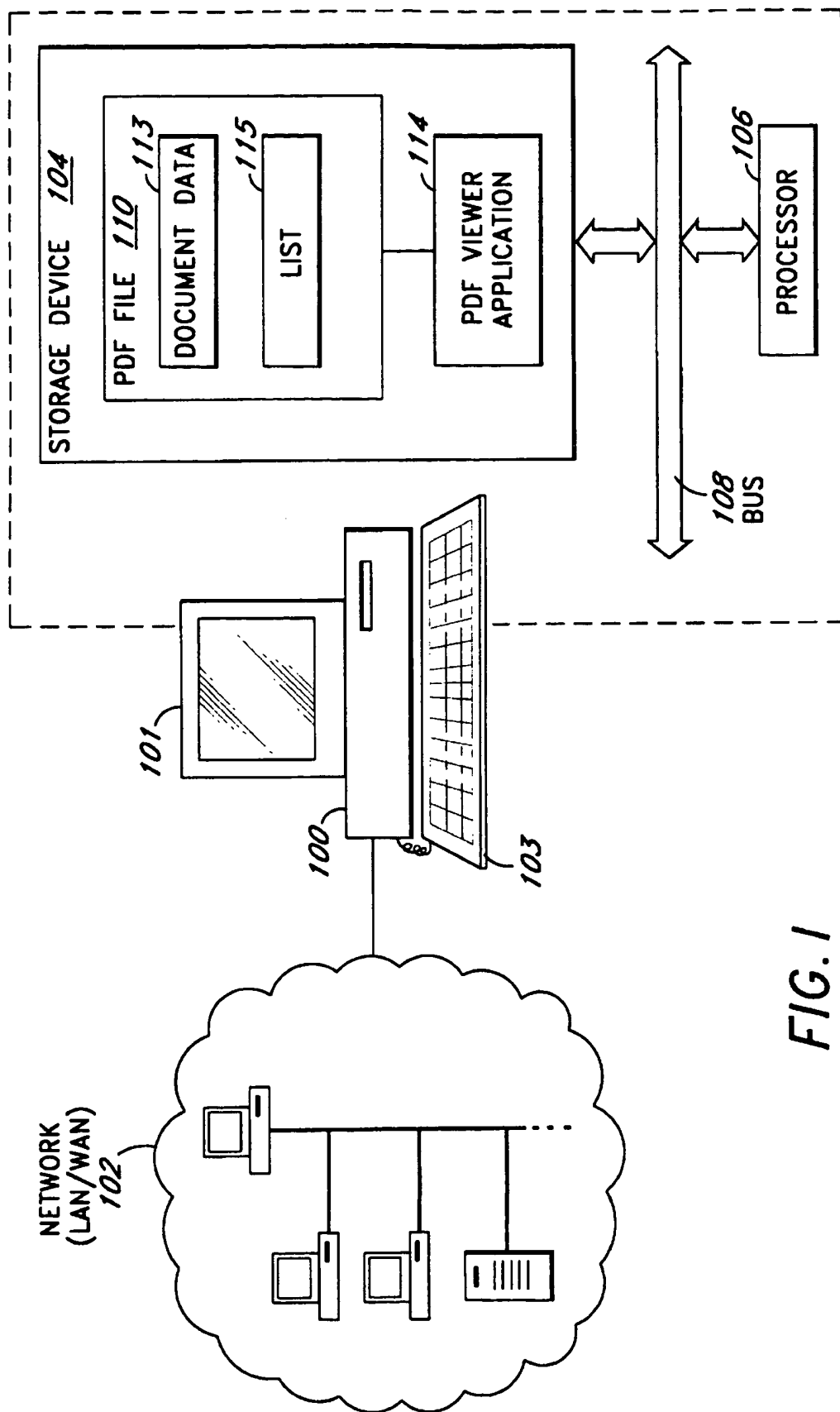


FIG. 1

embed one or more links in the first portion referencing one or more external documents viewable using a viewer application (180)
embed one or more links in the third portion referencing information contained in the second portion (190)

FIG. 2A

Get images of pages of document (202)
OCR the pages of the documents and associate the text with corresponding image location on the page image (204)
Identify references to external documents in a first portion of the document (206)
Associate a link to each reference to external documents (208)
Parse text in a third portion for noun phrases (210)
Cross-reference each discussion of each parsed noun phrase in a second portion of the document (212)
Link the noun phrase to the cross-referenced discussion (214)
Retrieve file history of document (216)
Cross-reference each mentioning of each parsed noun phrase in the file history(218)
Link the noun phrase to each reference in the file history (220)
Retrieve each document mentioned in the first portion of the document (222)
Cross-reference each mentioning of each parsed noun phrase or equivalent in the document referenced in the first portion (224)
Link the noun phrase to each relevant mentioning in the document (226)
Perform a database search for additional documents and retrieve each located document (228)
Cross-reference each mentioning of each parsed noun phrase or equivalent in the located document (230)
Link the noun phrase to each relevant mentioning in the located document (232)

FIG.2B

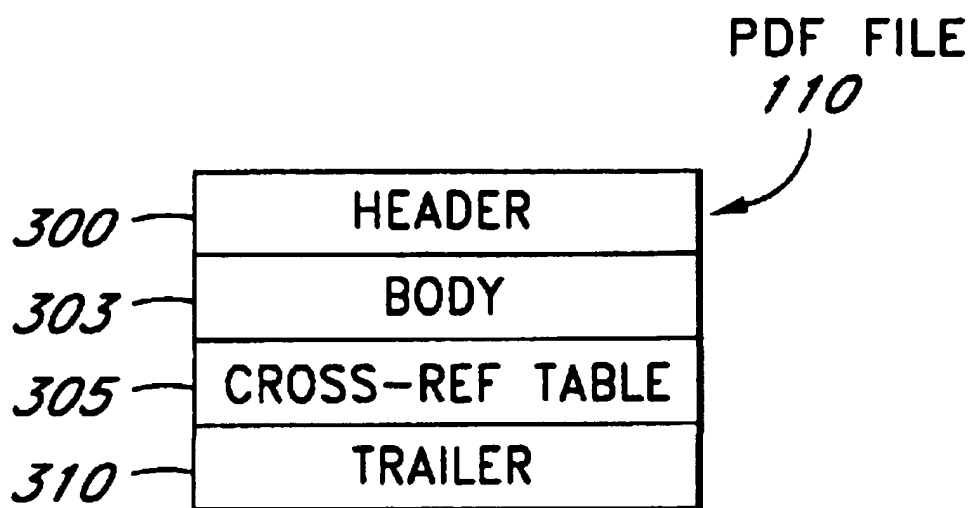


FIG.3

Locate citations to the prior art using data from office actions in the file history (402)
Extracts comparisons of the claim language to one or more prior art references (404)
Optionally perform a database search, locate relevant prior art ; locate description section relevant to the claim and map the prior art to the claim (406)
Annotate the document in the drawings or claims, for example (408)

FIG.4

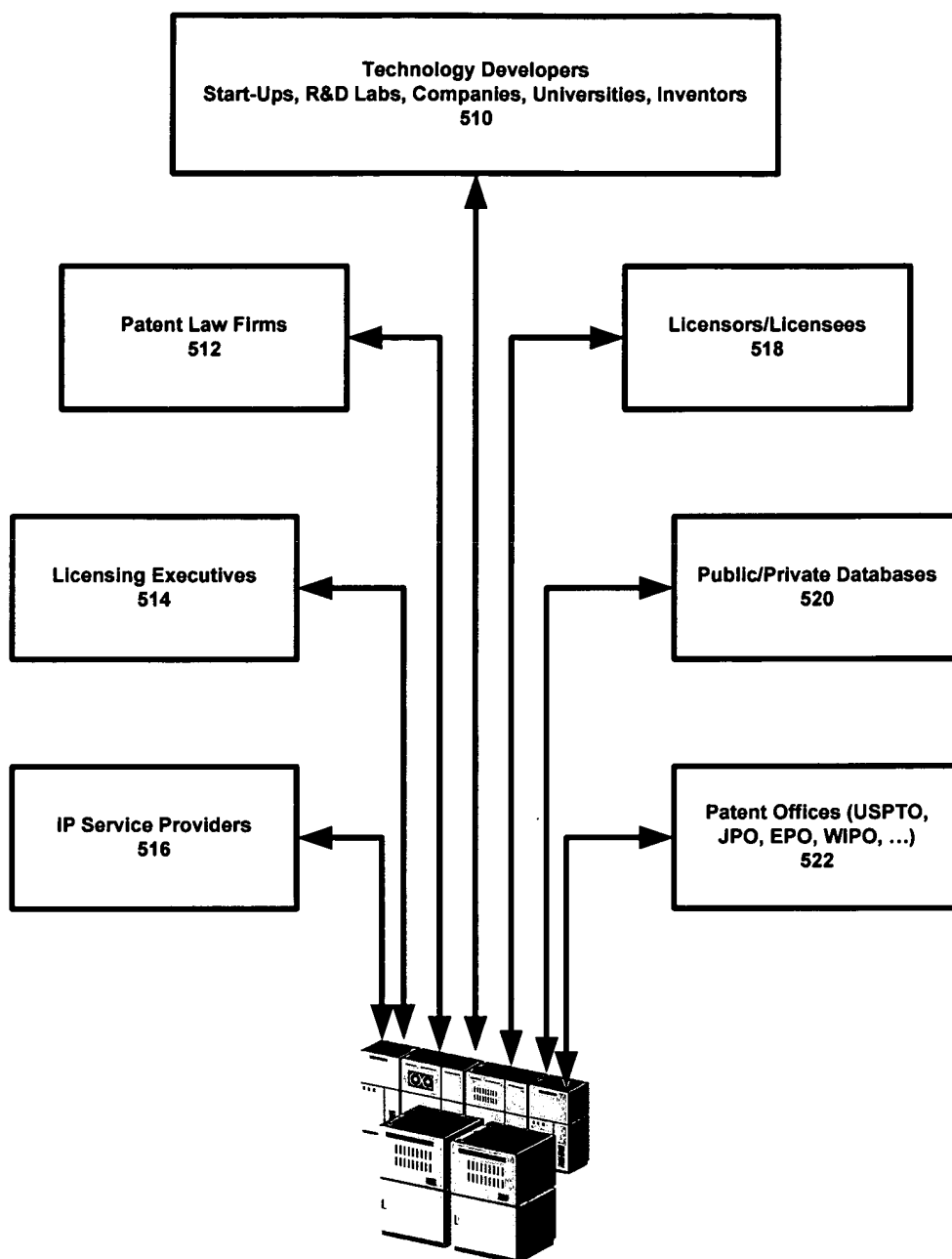


FIG. 5

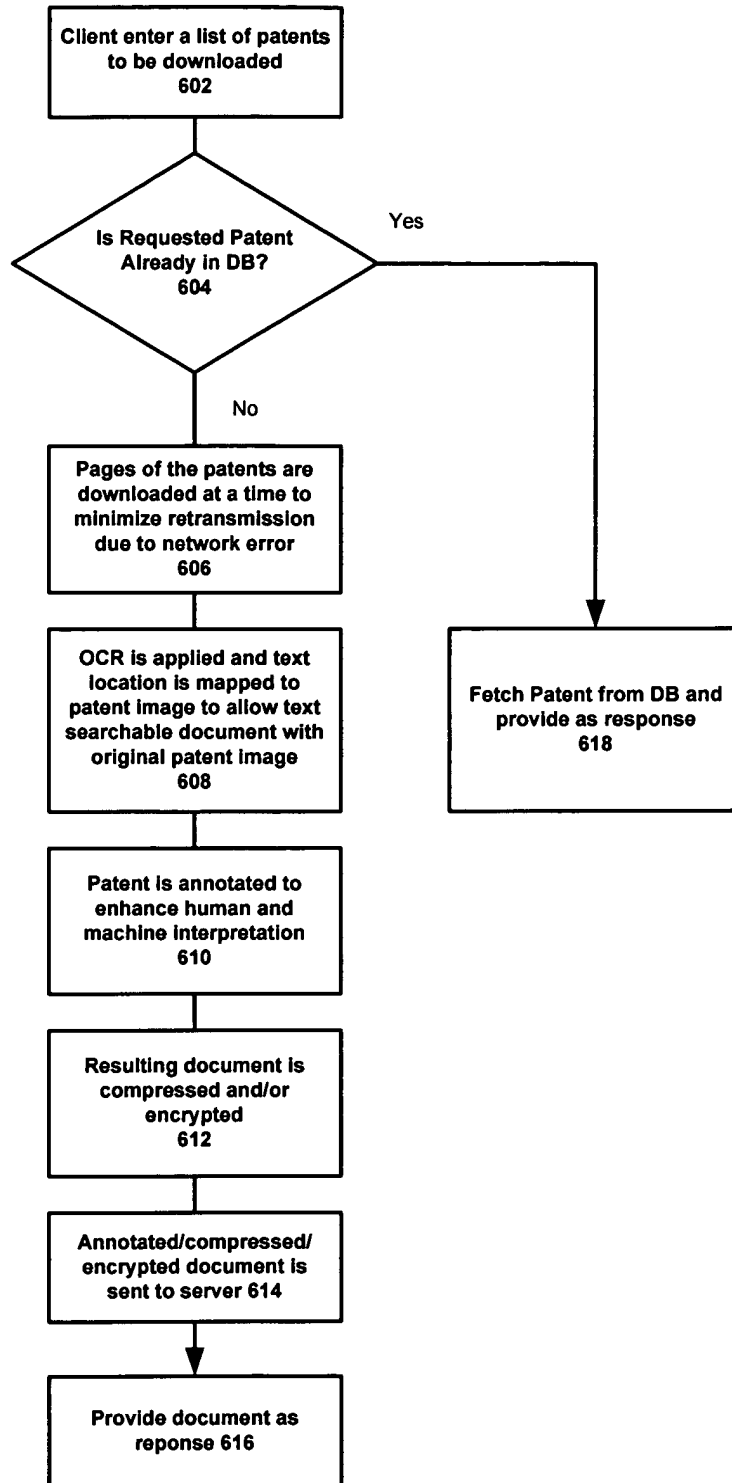


FIG. 6

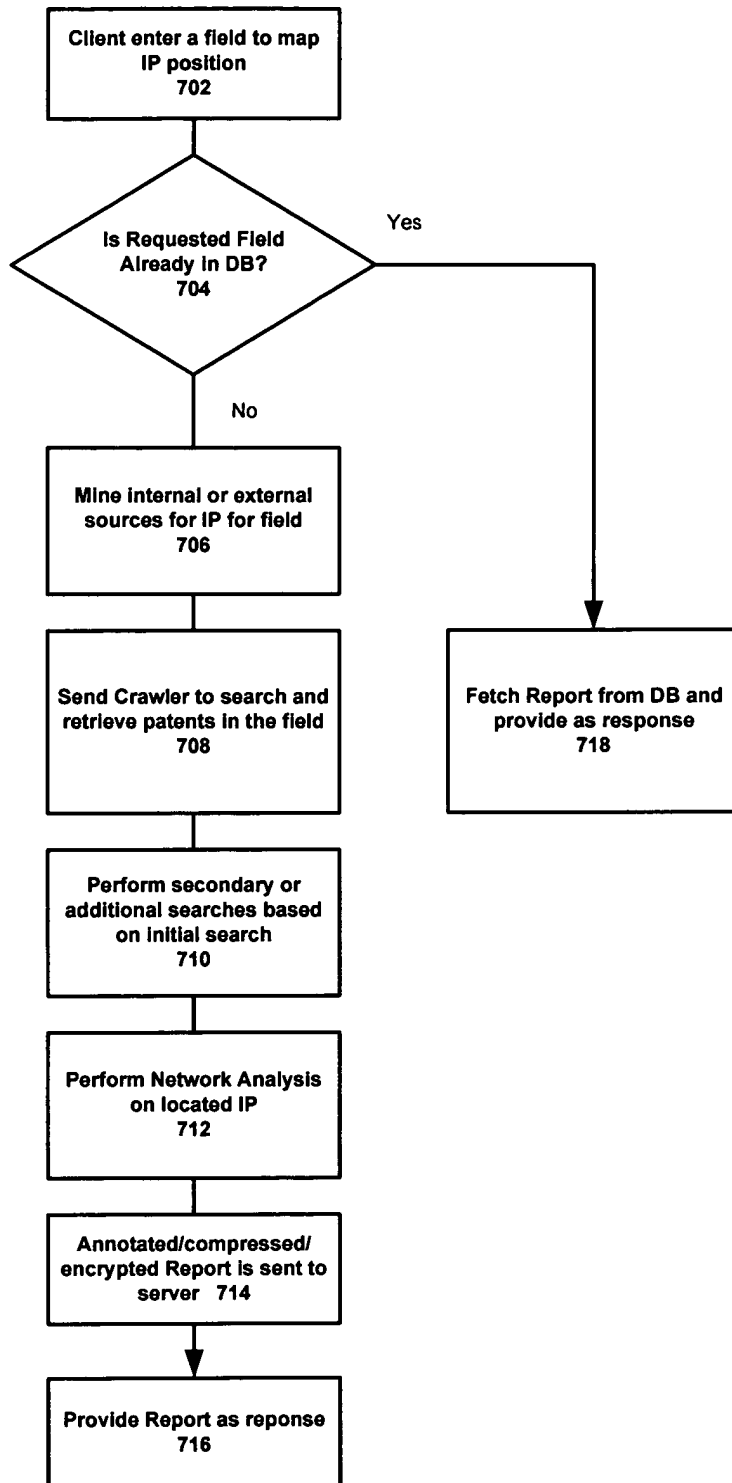


FIG. 7



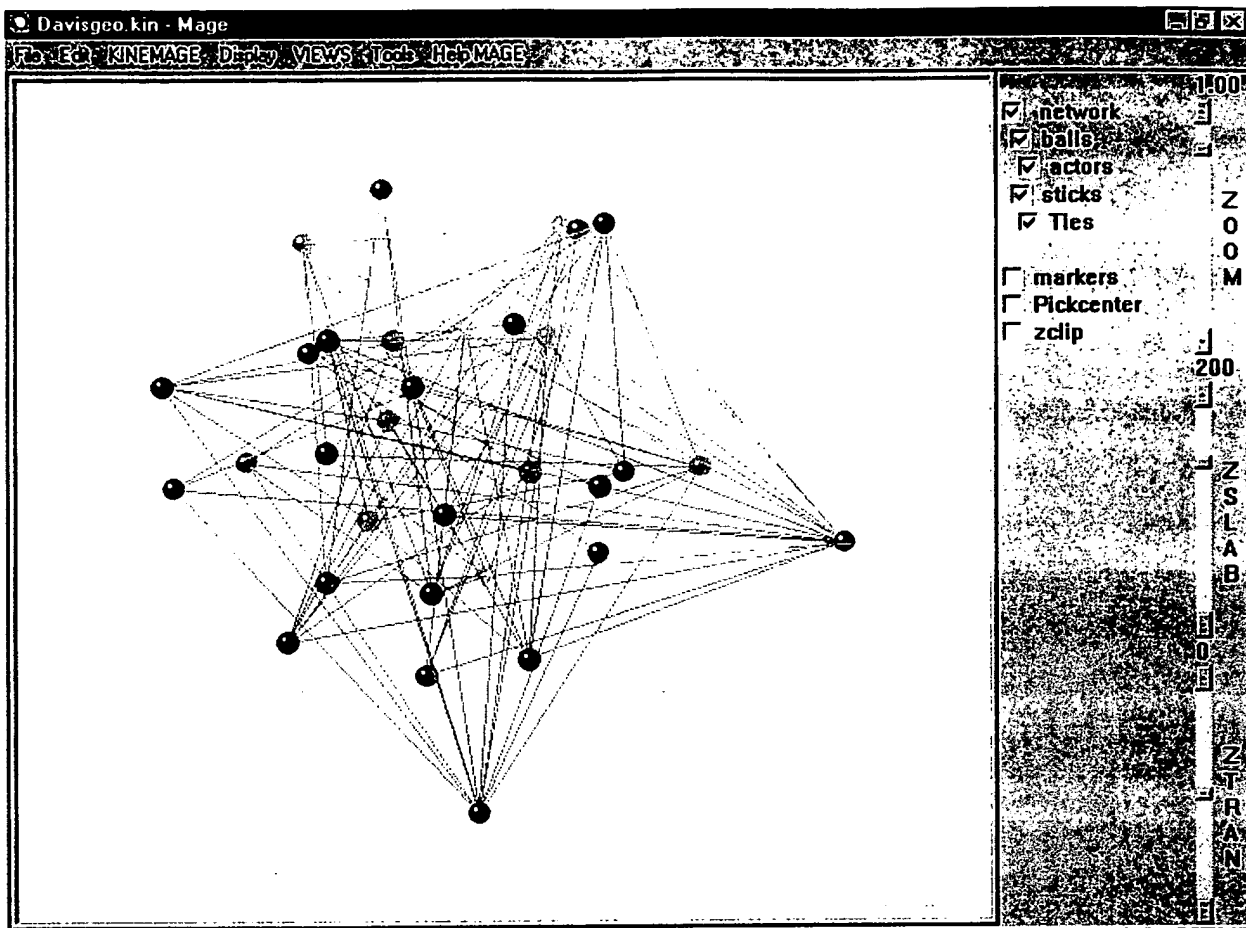


FIG. 8

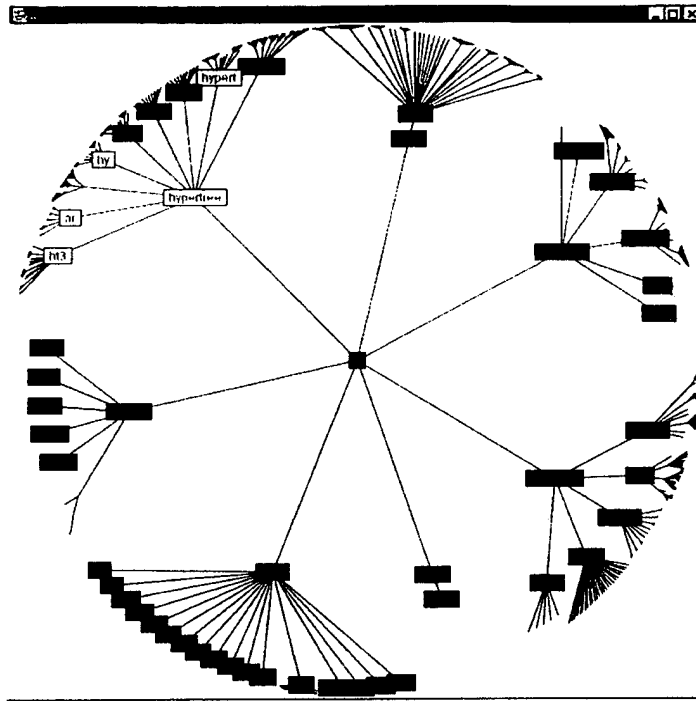


FIG. 9

store results from prior IP maps in a remote computer (810)
retrieve a cached IP map in response to a user request (812)
periodically flush cached IP maps to ensure a fresh IP map (814)

FIG. 10

Receive search request with OR search terms (850)
Request one remote computer to search each OR search term (854)
Collect search results from each remote computer ( 958).

FIG. 11

Receive search request (860)
Perform a search and identify list of all prior art (862)
Request each remote computer to download and analyze a portion of identified prior art (864)
Collect search results from each remote computer (866).

FIG. 12

Receive search request (870)
Request one remote computer to search each OR search term (872)
Each remote computer performs a search and identify list of all prior art (874)
Each remote computer in turn requests other remote computers to download and analyze a portion of identified prior art (876)
Collect search results from each remote computer (878).

FIG. 13

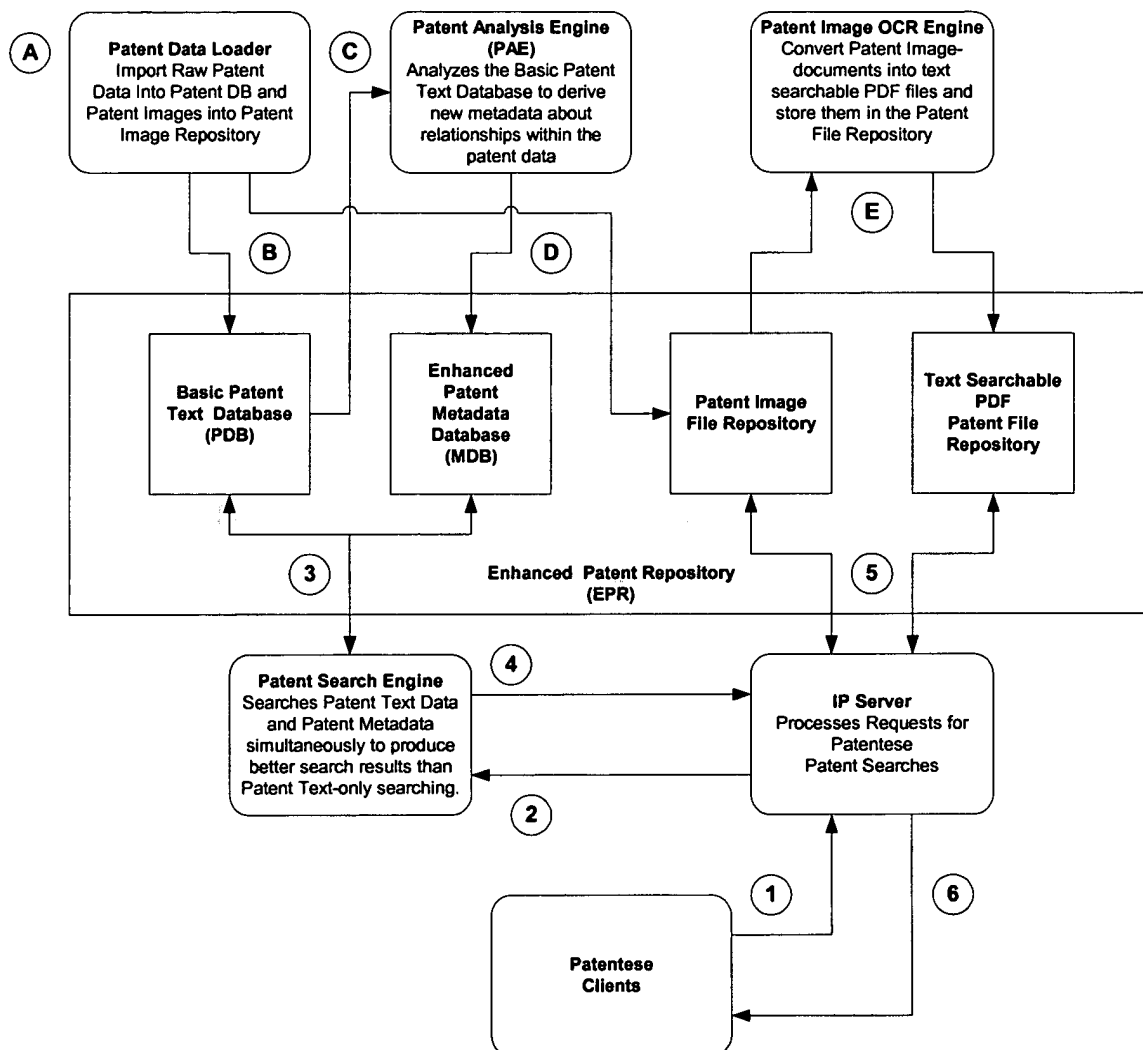


FIG. 14

Receive Query (910)
Identify List of Responsive IP Documents (920)
Assign Score Based on Citation/Usage Information (930)
Organize IP Score based on Score (940)

FIG. 15A

For each Issued Patent DB and Published Application DB

- a. Extract inventor names for each patent/application
- b. Search for papers citing the inventor names
- c. Extract concepts or important terms from the inventor publications/papers
- d. Extract concepts or important terms from the current patent/application
- e. Combine extracted concepts into meta-data describing the IP document.

FIG. 15B

For each Issued Patent DB and Published Application DB

- a. Extract inventor names for each patent/application
- b. Search for papers citing the inventor names
- c. Extract names of prior art authors associated with prior art used to reject the application in the file history.
- d. Search for papers citing the names of prior art authors
- e. Extract concepts or important terms from the inventor publications/papers
- f. Extract concepts or important terms from the current patent/application
- g. Extract concepts or important terms from the prior art used to reject the current patent/application and extract concepts or important terms from non-patent publications of the prior art authors
- h. Combine extracted concepts into meta-data describing the IP document.

FIG. 15C

For each Issued Patent DB and Published Application DB

- a. Extract inventor names for each patent/application
- b. Search for papers citing the inventor names
- c. For each cited prior art:
  - c1. Extract names of prior art authors associated with prior art used to reject the application in the file history.
  - c2. Search for papers citing the names of prior art authors
- d. Extract concepts or important terms from the inventor publications/papers
- e. Extract concepts or important terms from the current patent/application
- f. Extract concepts or important terms from the prior art and publications from prior art authors.
- g. Combine extracted concepts into meta-data describing the IP document.

FIG. 15D

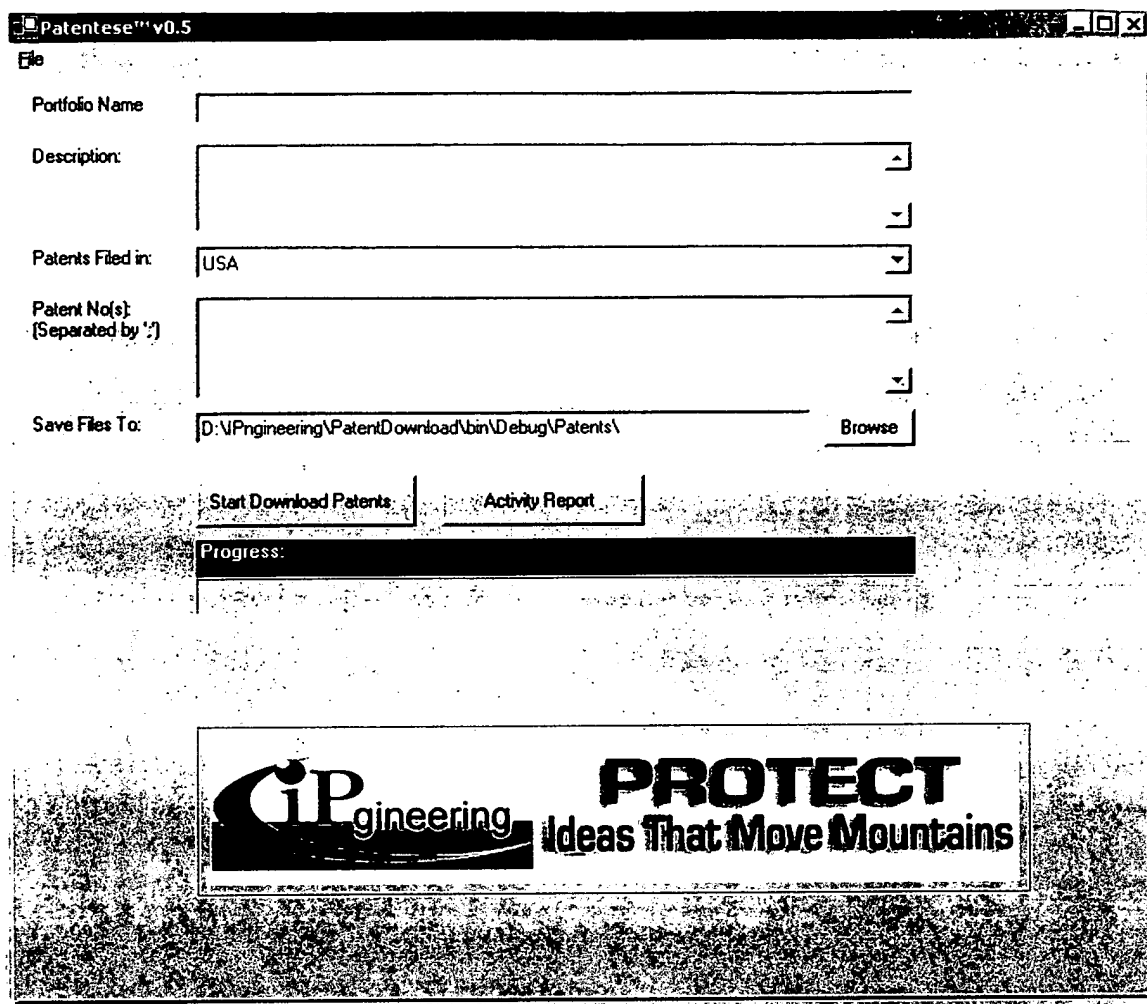


FIG. 16

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FIG. 17

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